IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

Applicant(s):

Meichun Ruan

Atty Docket No.: 12218,1100

Jun Shen

Charles Wheeler

Serial No.:

TBA

Client Ref:

MO-065

Filed:

Herewith

Group Art Unit:

TBA

TITLE:

OPTICAL MEMS SWITCHING

Examiner:

TBA

ARRAY WITH EMBEDDED BEAM-CONFINING CHANNELS AND

METHOD OF OPERATING SAME

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled OPTICAL MEMS SWITCHING ARRAY WITH EMBEDDED BEAM-CONFINING CHANNELS AND METHOD OF OPERATING SAME, the specification of which:

[X]	is attached hereto.		
	was filed on	as Application Serial No	_ was amended
	on	(if applicable).	

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

			Priority Not Claimed []
Number	Country	Filing Date	[]
Number	Country	Filing Date	_
I hereby claim the be application(s) listed below		C. § 119(e) of an	y United States provisional
60/217,265	07/11/00		
Application Number 60/155,757	Filing Date 09/23/99		
Application Number	Filing Date		
the subject matter of ear States application in the	ch of the claims of this he manner provided o disclose information etween the filing date	s application is not by the first parag material to patental	s, listed below and, insofar as disclosed in the prior United raph of 35 U.S.C. §112, I bility as defined in 37 C.F.R. tion and the national or PCT
09/563,595	05/03/00	Continuat	ion-in-Part of 09/496,446
Application Serial No.	Filing Date	Status —	Patent, Pending
09/496,446	02/02/00		ion-in-Part of 60/155,757
Application Serial No.	Filing date	Status —	Patent, Pending
statements made on in statements were made we punishable by fine or im Code and that such will patent issued thereon.	formation and belief with the knowledge that apprisonment, or both, useful false statements ma	are believed to be willful false staten nder Section 1001 c y jeopardize the val	owledge are true and that all true; and further that these nents and the like so made are of Title 18 of the United States lidity of the application or any
Full name of first invent	or: Meichun Ru	an	
Inventor's signature:			
Date:			
Residence:	Tempe	Arizona U	SA
	City	State/Country	
Citizenship:			
Post Office Address:	1050 S. Stanley	Place	Zip Code:85281

Full name of second joint	inventor: Jun Shen		
Inventor's signature:			
Date:			
Residence:	Phoenix City	Arizona USA State/Country	
Citizenship:			·
Post Office Address:	14654 S. 25th Place	Zip Code:8	5048
Full name of third joint in	eventor: Charles Wheeler		
Inventor's signature:			
Date:			<u> </u>
	Paradise Valley City	State/Country	<u> </u>
Citizenship: Post Office Address:	6501 E. Hummingbird Lane		5253

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY Docket No. STATUS (37 CFR 1.9(f) AND 1.27 (d)) - NONPROFIT ORGANIZATION 12218.1100 Serial No. Patent No. Filing Date Issue Date TBD TBD Herewith **TBD** Applicant/ Patentee: Meichun Ruan et al. Invention: OPTICAL MEMS SWITCHING ARRAY WITH EMBEDDED BEAM-CONFINING CHANNELS AND METHOD OF OPERATING SAME I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below: NAME OF ORGANIZATION: **Arizona State University** ADDRESS OF ORGANIZATION: P.O. Box 873511 Tempe, Arizona 85287-3511 Ľ) M. TYPE OF NONPROFIT ORGANIZATION: University or other Institute of Higher Education ☐ Tax Exempt under Internal Revenue Service Code (26 U.S.C. 501(a) and 501(c)(3)) Nonprofit Scientific or Educational under Statute of State of The United States of America Name of State: Citation of Statute: ☐ Would Qualify as Tax Exempt under Internal Revenue Service Code (26 U.S.C. 501(a) and 501(c)(3)) if Located in The United States of America ☐ Would Qualify as Nonprofit Scientific or Educational under Statute of State of The United States of America if Located in The United States of America Name of State: Citation of Statute: I hereby declare that the above-identified nonprofit organization qualifies as a nonprofit organization as defined in 37 C.F.R. 1.9(e) for purposes of paying reduced fees to the United States Patent and Trademark Office regarding the invention described in: the specification to be filed herewith. the application identified above. ☐ the patent identified above. I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above identified invention. If the rights held by the above-identified nonprofit organization are not exclusive, each individual, concern or

organization having rights to the invention is listed on the next page and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(c) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under

37 CFR 1.9(e).

			r organization e or organizatior	xists. is listed below.		
FULL NAME ADDRESS						
		Individual		Small Business Concern		Nonprofit Organization
FULL NAME						
ADDRESS		In all date of		Crost Divines Conserve		Name of American
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

12218.1100

Meichun Ruan Applicants:

Jun Shen

Charles Wheeler

Serial No.: To Be Assigned

Filing Date:

Group Art Unit: NYA

Examiner:

Docket No.:

NYA

Title:

OPTICAL MEMS SWITCHING ARRAY WITH EMBEDDED BEAM-CONFINING

CHANNELS AND METHOD OF

OPERATING SAME

POWER OF ATTORNEY

Arizona Board of Regents, the Assignee of the entire right, title, and interest in and to the above-captioned United States patent application and all inventions disclosed and claimed therein, hereby appoints as its attorneys to prosecute the above-captioned United States patent application and to transact all business in the United States Patent and Trademark Office connected therewith and with the resulting patent, individually and collectively:

SNELL & WILMER L.L.P.

One Arizona Center 400 East Van Buren

Phoenix, Arizona 85004-2202 Telephone: (602) 382-6000 Facsimile: (602) 382-6070

and the registered attorneys associated with Snell & Wilmer's Customer Number 020322.

Please send all further correspondence to Brett A. Carlson at the above address.

Ву:	Dr. Alan Poskanzer
Signature	:
Date:	
	EL608987042US

ASSIGNMENT

WHEREAS, the undersigned inventor (hereinafter "ASSIGNOR") of the address indicated below, is the inventor of "OPTICAL MEMS SWITCHING ARRAY WITH EMBEDDED BEAM-CONFINING CHANNELS AND METHOD OF OPERATING SAME", for which application is a continuation-in-part of United States Patent Application Serial No. 09/563,595 filed on May 3, 2000, which is a continuation-in-part of United States Patent Application Serial No. 09/496,446 filed February 2, 2000, which claims priority of United States Provisional Application Serial No. 60/155,757, filed September 23, 1999, and also claims priority of United States Provisional Patent Application Serial No. 60/217,265 filed July 11, 2000.

AND WHEREAS, ARIZONA STATE UNIVERSITY. (hereinafter "ASSIGNEE"), with an office at P.O. Box 873511, Tempe, Arizona 85287-3511, is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the ASSIGNOR's full and exclusive right to the invention as described in the aforesaid application, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue any Letters Patent issuing from or claiming priority to said application to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

AND HEREBY AGREES to transfer a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements and applications for patents based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred,

AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

EXECUTED as of the date written below by ASSIGNOR:

Inventor: Me	ichun Ruan	
Signature:		Date:
Residence address:	1050 S. Stanley Place P161, Tempe, Ariz	ona 85281

STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)	
On this day of county, appeared Meichun Ruan, who is I subscribed to the foregoing instrument, and	, 2001, before me, a notary public in and for said known to me to be the same person whose name is he acknowledges that he signed, sealed and delivered act for the uses and purposes therein set forth.
(Seal)	Notary Public
My commission expires:	
Inventor: Jun Shen Signature: 14654 S. 25th Place	
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)	
* * * * * * * * * * * * * * * * * * * *	o me to be the same person whose name is subscribed wledges that he signed, sealed and delivered the said
(Seal)	Notary Public
My commission expires:	

Inventor: Charles Wheeler	and the same of th
Signature:	Date:
Residence address: 6501 E. Hummingbird Lane, I	Paradise Valley, Arizona 85253
STATE OF ARIZONA)) ss. COUNTY OF MARICOPA)	
On this day of, 2001 county, appeared Charles Wheeler, who is known subscribed to the foregoing instrument, and he acknown the said instrument as a free and voluntary act for the	owledges that he signed, sealed and delivered
(Seal)	Notary Public
My commission expires:	